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III. *An Extraordinary high Tide in the River Thames observ'd by Capt. THO. JONES.*

MARCH the 8th, 1725-6, The Tide in the River *Thames*, at *New Crane* in *Shadwell*, flow'd twenty Foot, five Inches and a half, taken by a Level, from that High-water Mark, to Low-water the next Morning, and was four Inches higher than has been known these fourty Years.

IV. *Observations upon the Tides in the River Thames, by Mr. Henry de Saumarez.*

THAT the Use of my Instrument call'd the \* *Marine Surveyor* may yet farther appear, I shall here give some Experiments I made with it on the River *Thames*, in order to determine the Strength of the Tides of *Flood* and *Ebb*. Were the same to be done in the Channel, and on the Sea Coast of *Great Britain*, and mark'd in our Charts, I am humbly of Opinion, it would be of no small advantage to our Commerce, and of consequence a sufficient Recommendation of the *Marine Surveyor*, if that alone were the Use of it.

I am induced the rather to be of this Opinion, in regard I am not insensible of the Dangers on the *Casquets*, in the *Race of Alderney*, &c. where rapid Tides and Currents have occasioned but too many to mourn the Loss of Friends and Fortunes : As I dwell in the Neighbourhood of these Dangers, I have (in manifest hazard of my Life) survey'd and taken correct Draughts not only of them, but of the Islands of *Guernsey*, *Sarek*, &c. And as I persuade myself they are as correct, as any Thing that has hitherto appear'd of this kind, it is my intent to publish them for the Good of the Publick.

III. A TABULAR Account, shewing the Strength and gradual Increase and Decrease of the Tides of Flood and Ebb in the River *Thames*, as observ'd in *Lambeth Reach*, off of *Manchester Stairs*, and in the Middle of the River, with a new Instrument call'd the *Marine Surveyor*, on the 9th of June, 1720; It being then Full Moon, and consequently a Spring Tide. The Movement of the Machine 14 Inches under Water.

## F L O O D.

The Time of Flood.	The Depth of the River,	The Run of the Current in every 15 Min.	The whole Run of the Current to the Times express'd in the first Column.	The same reduced to Statute Miles of 5280 feet, or 528 Revolutions of the Machine.	The Reducti- on into English maritime Miles of 6000 feet, or 600 Revolu- tions.	
					H. M.	Ft. In.
I	7	1490	3290	55	1	11
					2	29
					3	30
					4	70
1	8	1870	5160	120	1	66
					2	139
					3	89
2	10	2500	9850	65	1	55
					2	2.8
2	13	2730	15280	6	3	2
					4	124
					5	81
3	14	2740	18020	86	1	3
					2	35
3	14	2720	20740	94	3	134
					4	147
3	14	2570	23310	87	1	3
					2	2.8
					3	124
					4	81
3	14	10	2220	45	1	3
					2	2
					3	134
					4	147
3	9	1820	27350	66	1	3
					2	2.8
4	14	.990	28340	62	3	124
					4	81
5	9	.130	28470	75	1	3
					2	2.8

## E B B.

The time of Ebb.	The depth of the Ri- ver.	The Run of the Current in every 15 Min.	The whole Run of the Current to the Times ex- pressed in the first Column.	The same re- duced to Sta- tute Miles of 5280 feet, or 528 Revolutions of the Machine	M. Pts. Rev.	The reduction in- to English mar- itime Miles of 6000 feet, or 600 Re- volutions.
						M. Pts. Rev.
H. M.	Ft. In.	Feet.	Feet.	Feet.	M. Pts. Rev.	M. Pts. Rev.
15	12 9	280	280	28		28
30	12 3	1140	1420	10		142
45	11 10	1900	3320	68		32
1	11 4	2080	5400	12		90
1	15	11 2	2120	92		2
	30	10 9	2120	40		64
	45	10 4	2170	125		131
2	10	2130	13940	74		44
2	15	9 6	2060	16000	16	100
	30	9 4	2040	18040	88	4
	45	9	2020	20060	26	56
3	8 9	1910	21970	85		97
3	15	8 6	1900	23870	11	137
	30	8 3	1910	25780	70	28
	45	8	1860	27640	124	64
4	7 9	1810	29450	41		95
4	15	7 3	1780	31230	87	123
	30	7	1690	32920	124	142
	45	6 6	1620	34540	22	4
5	6 3	1570	36110	47		11
5	15	6 3	1570	37680	72	18
	30	6	1570	39250	97	25
	45	6	1560	40810	121	31
6	5 9	1550	42360	12		36
6	15	5 6	1560	43860	30	36
	30	5 3	1460	45320	44	32
	45	5	1450	46770	57	27
7	4 9	1430	48200	68		20
7	15	4 6	1400	49600	76	10
	30	4 3	1380	50980	82	148
	45	4 3	1340	52320	84	232
8	4	1270	53590	79		109
8	5 3 10	420	54010	121		1
	10 3 11	410	54420	30		42
	15 4	400	54810	70		82
	20 4	380	55200	108		120
25	4 2	300	55300	6		
30	4 2	270	55770	33		27
35	4 3	130	55900	46		40
40		Stagnant.	Stagnant			

IV. A TABULAR Account, Shewing the Strength and gradual Increase of the Tides of Flood and Ebb in the River *Thames*, as observ'd in *Lambeth Reach*, off of *Manchester Stairs*, and in the Middle of the River, with a New Instrument call'd the *Marine Surveyor*, on the 18th of June 1720; It being then the last Quarter of the Moon and consequently a Neap Tide. The Movement of the Machine 14 Inches under Water.

F L O O D.						
The Time of Flood.	The Deph of the River.	The Run of the Current in every 15 Min.	The whole Run of the Current to the Times expref'd in the first Column.	The same reduced to Sta. tute Miles of 5280feet, or 528 Revolutions of the Machine.	The Reducti.on into English maritime Miles of 6000 feet, or 600 Revolutions.	
H. M.	Ft. In.	Feet.	Feet.	M. Pts Rev.	M. Pts. Rev.	
15	4	220	220	22		22
30	4 3	520	740	74		74
45	4 9	900	1640	32	14	14
1	5 3	1030	2670	3	117	117
1	15 5 9	1020	3690	105	69	69
	30 6 1	1160	4850	89	35	35
	45 7	1450	6300	102	30	30
2	7 9	1640	7940	2	44	44
2	15 8 1	1830	9770	53	77	77
	30 9	1920	11690	113	119	119
	45 9 6	2070	13760	56	26	26
3	10	2170	15930	9		
3	15 10 4	2070	18000	84	3	3
	30 11 3	1960	19960	16	46	46
	45 11 4	1890	21850	73	55	55
4	11 9	1700	23550	111	105	105
4	15 11 6	1300	24850	109	85	85
	30 11	730	25580	50	8	8
	35 11	70	25650	57	15	15
	40	Stagn.	Stagnant.			
45	10 10	dit.	dit.			
50	10 9	dit.	dit.			

## E B B.

The Time of Ebb.	The Depth of the River.	The Run of the Current in every 15 Min.	The whole Run of the Current to the Times express'd in the first Column.	The same reduced to Statute Miles of 5280 feet, or 528 Revolutions of the Machine.			The Reduction into English maritime Miles of 6000 feet, or 600 Revolutions.		
				H. M.	Feet.	Feet.	M. Pts. Rev.	M. Pts. Rev.	
				15	10 6	610	610	61	61
				30	10	1340	1950	1 4/5	45
				45	9 9	1520	3470	2 3/5	47
1					9 3	1650	5120	3 3/4	62
1	15	9	1750		6870		1 3/4	87	
	30	8 6	1730		8600		1 3/2	110	
	45	8	1700		10300		1 3/4	130	
2	7	9	1710		12010		2 1/4	1	
2	15	7 3	1710		13120		2 1/2	22	
	30	7 1	1710		15430		2 3/4	45	
	45	6 9	1710		17140		3	64	
3	6	7	1680		18820		3 1/2	82	
3	15	6 4	1670		20490		3 3/4	99	
	30	6	1570		22060		4	106	
	45	5 9	1500		23560		4 1/4	106	
4	5	8	1480		25040		4 1/2	104	
4	15	5 3	1440		26480		5	98	
	30	5 2	1430		27910		5 1/2	91	
	45	5	1420		29330		5 5/6	83	
5	5		1430		30760		5 3/4	76	
5	15	4 10	1420		32180		6	68	
	30	4 6	1430		33610		6 1/4		
	45	4 4	1420		35030		6 1/2	61	
6	4	1	1380		35410		6 3/4	53	
6	15	3 11	1360		37770		7	41	
	30	3 11	1340		39110		7 1/2	27	
	45	3 10	1230		40340		7 2/3	11	
7	3	10	1070		41410		7 3/4	134	
7	15	3 11	530		41940		7 4/5	91	
	20	4	20		41960		7 4/5	144	
	25								
35	4	3	Stagnat. dit.		Stagnant.				